

250mW High Speed Switching Array

FEATURES

- Fast switching speed
- High reverse breakdown voltage rating
- Moisture sensitivity level 1
- Matte Tin (Sn) lead finish with Nickel (Ni) underplate
- Pb free version and RoHS compliant
- Packing code with suffix "G" means green compound (halogen-free)

MECHANICAL DATA

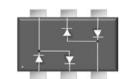
- Case: SOT-363 small outline plastic package
- Terminal: Matte tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed : 260°C/10s
- Case material UL flammability rating 94V-0
- Weight: 8 ± 0.5 mgMarking Code: K1



SOT-363







MAXIMUM RATINGS AND EL	ECTRICAL CHARACTER	ISTICS (T _A =25°C	Cunless otherwise noted)	
PARAMETER		SYMBOL	VALUE	UNIT
Power Dissipation		P _D	200	mW
Repetitive Peak Reverse Voltage		V_{RRM}	85	V
Repetitive Peak Forward Current		I _{FRM}	450	mA
Mean Forward Current		Io	150	mA
Non-Repetitive Peak Forward	Pulse width = 1 μs		4.5	^
Surge Current	Pulse width = 1 s	I _{FSM}	0.5	A
Junction and Storage Temperature Range		T_J,T_STG	-55 to 150	°C

PARAMETER		SYMBOL	MIN	MAX	UNIT
Reverse Breakdown Voltage	I _R =2.5μA	V _(BR)	75	-	V
	I _F =1.0mA		-	0.715	
	I _F =10mA		-	0.855	1
Forward Voltage	I _F =50mA	V _F	-	1.000	V
	I _F =100mA		-	1.200	1
	I _F =150mA		-	1.250	1
Reverse Leakage Current @V _R =75V		I _R	-	1.000	μΑ
Junction Capacitance	V _R =0, f=1.0MHz	CJ	-	1.500	pF
Reverse Recovery Time (Note 1)		t _{rr}	-	6.000	ns

Note 1 : Reverse recovery test conditions : $I_F = I_R = 10 \text{mA}$, $R_L = 100 \Omega$

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RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

Fig. 1 Maximum Permissible Continuous Forward Current As A Function of Soldering Point Temperature

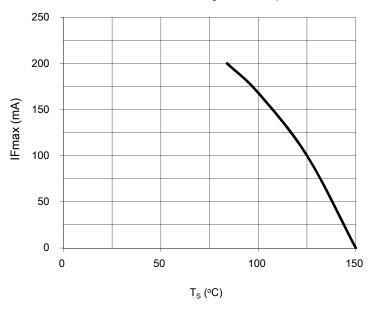


Fig. 2 Forward Current As A Function of Forward Voltage

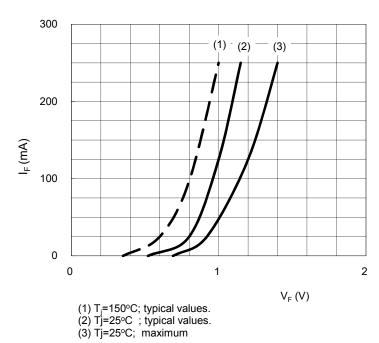
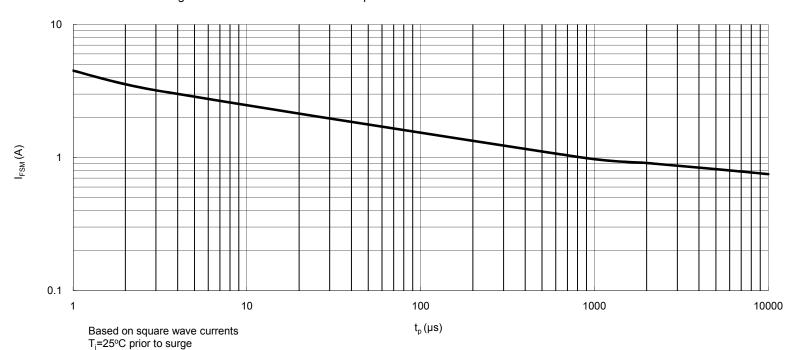
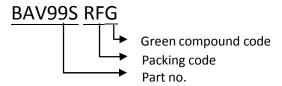


Fig. 3 Maximum Permissible Non-Repetitive Peak Forward Current As A Function of Pulse Duration

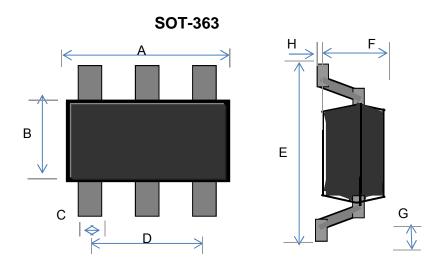




ORDER INFORMATION (EXAMPLE)

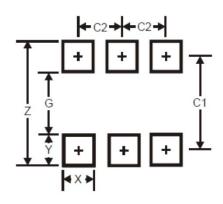


DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
Α	2.00	2.20	0.079	0.087
В	1.15	1.35	0.045	0.053
С	0.15	0.35	0.006	0.014
D	1.20	1.40	0.047	0.055
Е	2.15	2.45	0.085	0.096
F	0.85	1.05	0.033	0.041
G	0.25	0.46	0.010	0.018
Н	0.00	0.10	0.000	0.004

SUGGESTED PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)	
DIIVI.	Тур.	Тур.	
Z	3.20	0.126	
G	1.60	0.063	
Х	0.55	0.022	
Υ	0.80	0.031	
C1	2.40	0.094	
C2	0.95	0.037	







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